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SEQUENCE LISTING

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ICAGEN, Inc.

<120> Identification and Expression of Human Kir5.1

<130> 018512-000410US

<140> US 09/623,304

<141> 2001-02-21

<150> US 60/076,612

<151> 1998-03-03

<150> WO PCT/US99/04549

<151> 1999-03-02

<160> 4

<170> PatentIn Ver. 2.1

<210> 1

<211> 383

<212> PRT

<213> Homo sapiens

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<223> human Kir5.1 alpha subunit monomer of inward
rectifier potassium channel

<220>

<221> PEPTIDE

<222> (351)..(383)

<223> tail region

<220>

<221> MOD_RES

<222> (303)

<223> Xaa = Lys or Glu

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Arg	Arg	Arg	Leu	Leu	His	Lys	Asp	Gly	Ser	Cys	Asn	Val	Tyr	Phe	Lys
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His	Ile	Phe	Gly	Glu	Trp	Gly	Ser	Tyr	Val	Val	Asp	Ile	Phe	Thr	Thr
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Leu	Val	Asp	Thr	Lys	Trp	Arg	His	Met	Phe	Val	Ile	Phe	Ser	Leu	Ser
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Tyr	Ile	Leu	Ser	Trp	Leu	Ile	Phe	Gly	Ser	Val	Phe	Trp	Leu	Ile	Ala
			85					90					95		
Phe	His	His	Gly	Asp	Leu	Leu	Asn	Asp	Pro	Asp	Ile	Thr	Pro	Cys	Val
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Asp	Asn	Val	His	Ser	Phe	Thr	Gly	Ala	Phe	Leu	Phe	Ser	Leu	Glu	Thr
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Gln	Thr	Thr	Ile	Gly	Tyr	Gly	Tyr	Arg	Cys	Val	Thr	Glu	Glu	Cys	Ser
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Val Ala Val Leu Met Val Ile Leu Gln Ser Ile Leu Ser Cys Ile Ile
 145 150 155 160
 Asn Thr Phe Ile Ile Gly Ala Ala Leu Ala Lys Met Ala Thr Ala Arg
 165 170 175
 Lys Arg Ala Gln Thr Ile Arg Phe Ser Tyr Phe Ala Leu Ile Gly Met
 180 185 190
 Arg Asp Gly Lys Leu Cys Leu Met Trp Arg Ile Gly Asp Phe Arg Pro
 195 200 205
 Asn His Val Val Glu Gly Thr Val Arg Ala Gln Leu Leu Arg Tyr Thr
 210 215 220
 Glu Asp Ser Glu Gly Arg Met Thr Met Ala Phe Lys Asp Leu Lys Leu
 225 230 235 240
 Val Asn Asp Gln Ile Ile Leu Val Thr Pro Val Thr Ile Val His Glu
 245 250 255
 Ile Asp His Glu Ser Pro Leu Tyr Ala Leu Asp Arg Lys Ala Val Ala
 260 265 270
 Lys Asp Asn Phe Glu Ile Leu Val Thr Phe Ile Tyr Thr Gly Asp Ser
 275 280 285
 Thr Gly Thr Ser His Gln Ser Arg Ser Ser Tyr Val Pro Arg Xaa Ile
 290 295 300
 Leu Trp Gly His Arg Phe Asn Asp Val Leu Glu Val Lys Arg Lys Tyr
 305 310 315 320
 Tyr Lys Val Asn Cys Leu Gln Phe Glu Gly Ser Val Glu Val Tyr Ala
 325 330 335
 Pro Phe Cys Ser Ala Lys Gln Leu Asp Trp Lys Asp Gln Gln Leu His
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<212> DNA

<213> Homo sapiens

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<223> human Kir5.1 alpha subunit monomer of inward
rectifier potassium channel

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<221> CDS

<222> (46)..(1197)

<223> human Kir5.1 alpha subunit

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<221> unsure

<222> (1279)

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

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<210> 4
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 <212> DNA
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<220>
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